EPISOMAL NON-TRANSFORMING NUCLEIC ACID ELEMENTS IN FUNCTIONAL GENOMIC AND ANTIGENIC APPLICATIONS

ABSTRACT

The present invention provides a method for functional genomic analysis and antigen prototyping by introducing episomal non-transforming non-viral vector-based cDNA or genomic libraries of donor organisms, pathogens, or cancer cells into host cells. The DNA libraries can be compacted without substantial aggregation to facilitate uptake by host cells. Antigen prototyping can be to identify antigens of pathogens that confer immuno-protection against the pathogens and antigens of cancer cells that confer immuno-protection against the cancer cells..